(19) World Intellectual Property **Organization**

International Bureau



I REGIS BULGIGO DE BUDU BURGO BURGO BURGO BURGO DE SUBSTITUTO DE SUBSTITUTO DE SUBSTITUTO DE SUBSTITUTO DE SUB

(43) International Publication Date 24 March 2005 (24.03.2005)

PCT

(10) International Publication Number WO 2005/026845 A1

(51) International Patent Classification7: C09D 11/10, 11/08, 11/12

G03G 9/125,

(21) International Application Number:

PCT/AU2004/001241

(22) International Filing Date:

14 September 2004 (14.09.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

2003905081

18 September 2003 (18.09.2003)

- (71) Applicant (for all designated States except US): RE-SEARCH LABORATORIES OF AUSTRALIA PTY LTD [AU/AU]; 210 Greenhill Road, Eastwood, S.A. 5063 (AU).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): HERBERT, Marko, Lee [AU/AU]; 62 Frederick Street, Maylands, S.A. 5069 (AU).

- (74) Agent: MADDERNS; Level 1, 64 Hindmarsh Square, Adelaide, S.A. 5000 (AU).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

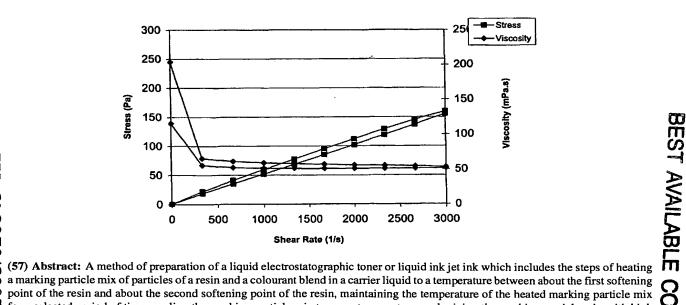
Published:

with international search report

[Continued on next page]

(54) Title: MARKING LIQUID METHOD OF PREPARATION AND PRODUCT PRODUCED THEREBY

EXAMPLE 1 - CONVECTION TREATMENT



point of the resin and about the second softening point of the resin, maintaining the temperature of the heated marking particle mix for a selected period of time, cooling the marking particle mix to room temperature, and mixing the marking particle mix with high shear. The particle mix can be produced by coarse grinding in a ball mill. The resultant toner or ink has an improved Newtonian like flow behaviour, improved electrical properties, reduced sedimentation and agglomeration and significantly improved optical density and reduced background. The invention also includes toners and inks produced by the method.

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.